

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A grease collection cartridge for holding kitchen waste grease as a landfill-acceptable solid comprising:

housing for containing the kitchen waste grease and having an inlet for receiving kitchen waste grease, wherein the housing has an outer wall layer of spiral wound paper tubing;

a mixing baffle within the housing; and

a reactant within the cartridge to solidify grease and oil.
2. (Original) The apparatus according to claim 1, wherein the housing has a lid with a plunger adapted to actuate a switch.
3. (Original) The apparatus according to claim 1, wherein the housing has a lid with a bearing surface in which a shaft of the mixing baffle is journaled.
4. (Original) The apparatus according to claim 1, wherein the housing has a cylindrical composite plastic body.

5. (Original) The apparatus according to claim 1, wherein the housing includes a plastic base.

6. (Original) The apparatus according to claim 5, wherein the plastic base includes a key on the exterior of the plastic base.

7. (Original) The apparatus according to claim 6, wherein the key is made of plastic.

8. (Original) The apparatus according to claim 1, wherein the mixing baffle is made of plastic.

9. (Cancelled)

10. (Currently Amended) A grease collection cartridge for holding kitchen waste grease as a landfill-acceptable solid comprising:
_____ housing for containing the kitchen waste grease and having an inlet for receiving
kitchen waste grease;
_____ a mixing baffle within the housing, wherein the mixing baffle has a main shaft with
The apparatus according to claim 9, wherein the main shaft has a "Z" shaped cross section; and
_____ a reactant within the cartridge to solidify grease and oil.

11. (Original) The apparatus according to claim 10, wherein the housing includes a base that has a bearing for the "Z" shaped main shaft.

12. (Original) The apparatus according to claim 10, wherein the z-shaped main shaft is adapted to interlock to a driving shaft.
13. (Original) The apparatus according to claim 1, wherein the mixing baffle has openings.
14. (Original) The apparatus, according to claim 13, wherein the openings have louvers at their lower edges.
15. (Original) The apparatus according to claim 1, wherein the mixing baffle extends to two sides of the main shaft and louvers face opposite sides of the main shaft.
16. (Original) The apparatus according to claim 1, wherein the mixing baffle supports a package of the reactant.
17. (Original) The apparatus according to claim 16, wherein the package is made of a water-soluble material.
18. (Original) The apparatus according to claim 16, wherein the package includes an amount of sodium hydroxide (Iye) sufficient to turn a volume of grease to be placed in the cartridge into soap.

19. (Original) The apparatus according to claim 1, wherein the housing has a water impervious inner liner.

20. (Cancelled)

21. (Original) A disposable grease collection cartridge comprising:
a cylindrical composite body;
a lid on the body having an internal bearing;
a base on the body having an internal bearing and an external key;
a mixing baffle with a "z" shaped main shaft journaled in the bearings with openings on both sides of the shaft; and
a water soluble package attached to the baffle containing a reactant to turn grease into soap.

22. (Original) A disposable grease collection cartridge comprising
a cylindrical composite body having an outer wall of spiral wound paper tubing and a water impervious inner liner,
a plastic base on the body having an internal bearing,
a plastic lid on the body including an inlet forming an internal bearing,
an agitator within the body including a "z-shaped" shaft engaging the bearings on the base and lid, louvered openings, and a water soluble package containing an amount of sodium hydroxide (lye) sufficient to turn a volume of grease to be placed in the body into soap.

23. (Original) The apparatus according to claim 1, further comprising a cartridge holder assembly.

24. (Original) The apparatus according to claim 23, wherein the cartridge holder assembly is constructed of rotomolded plastic.

25. (Original) The apparatus according to claim 23, wherein the cartridge holder assembly is hollow.

26. (Original) The apparatus according to claim 25, wherein the hollow cartridge assembly serves as a grease storage tank.

27. (Original) The apparatus according to claim 23, wherein the cartridge holder assembly includes an inlet valve.

28. (Original) The apparatus according to claim 23, wherein the cartridge holder assembly includes a motor and a switch.

29. (Original) The apparatus according to claim 28, wherein the switch is a plunger type switch that closes an electrical circuit when the plunger is depressed and prevents operation of the motor when a collection cartridge is not in place.

30. (Original) The apparatus according to claim 23 further comprising an oil/grease separator unit.

31. (Original) The apparatus according to claim 30, wherein the oil/grease separator unit is connected to the cartridge holder assembly by an inlet to deliver separated oil/grease to the cartridge holder assembly.

32. (Original) The apparatus according to claim 23, wherein the cartridge holder assembly includes a cartridge locating notch to prevent rotation of the grease collection cartridge within the assembly.

33. (Original) The apparatus according to claim 28, further comprising a pump driven by the motor.

34. (Original) The apparatus according to claim 33, wherein the pump delivers water and grease from the cartridge holder assembly into the cartridge housing.

35. (Original) The apparatus according to claim 28, wherein the motor rotates the mixing baffle in the cartridge housing.

36. (Original) The apparatus according to claim 35, wherein the motor rotation of the mixing baffle within the cartridge housing mixes grease, water and reactant.

37. (Original) The apparatus according to claim 23, wherein the cartridge holder assembly has a water inlet to allow water into the cartridge holder assembly.
38. (Original) The apparatus according to claim 37, wherein the water inlet has a solenoid valve.
39. (Original) The apparatus according to claim 38, wherein the solenoid valve controls the flow of water through the inlet into the cartridge holder assembly.
40. (Original) The apparatus according to claim 23, wherein the cartridge holder assembly has a heater.
41. (Original) The apparatus according to claim 40, wherein the heater provides sufficient heat to keep the grease in liquid form.
42. (Original) The apparatus according to claim 41, wherein the heater is an immersion type heater.
43. (Original) The apparatus according to claim 41, wherein the heater is an external heater.
44. (Original) The apparatus according to claim 23, wherein the cartridge holder assembly includes liquid level sensors.

45. (Original) The apparatus according to claim 44, wherein the sensors include a grease full sensor that signals when the cartridge holder assembly contains a quantity of grease appropriate to be transferred into the cartridge housing.

46. (Original) The apparatus according to claim 44, wherein the sensors include a water full sensor that signals when the cartridge holder assembly contains a desired quantity of water.

47. (Original) The apparatus according to claim 23, wherein the cartridge holder assembly further comprises a control system.

48. (Original) The apparatus according to claim 47, wherein the control system receives signals from sensors and activates a pump and motor.

49. (Original) The apparatus according to claim 23, wherein the cartridge holder assembly further includes an oil/grease inlet.

50.-82. (Cancelled)